

SHKOL'NIK, B.I., kand.med.nauk; KORNIIOVA, S.M.

Combined use of paracervical enesthesia and local anesthesia in gynecological surgery. Ped., akush. i gin. 19 no.3156-60 '57.

(MIRA 13:1)

1. Ginekologicheskoye otdeleniye (sav. - S.M. Kornilova) Zhelesnodorozhnogo rodil'nogo doma Yugo-sapadnoy zhelezhnoy dorogi (glavnyy yrach - G.S. Stepankova).

(GENERATIVE ORGANS, YEMALE-SURGERY) (LOCAL AMESTHESIA)

33924 S/079/62/032/002/011/011 D243/D303

D'yakonov, I.A., Nizovkina, T.V. and Kornilova, T.A.

AUTHORS:

Reaction of dichlorocarbene with chloroprene

TITLE:

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 2, 1962, 664-665

TEXT: The authors wished to confirm that dichlorocarbene, on reacting with chloroprene, joins in the 1,2 position. Investigation showed that this occurred, 1,2, 2-trichlore-1-vinyloyclopropane (I) being formed - a

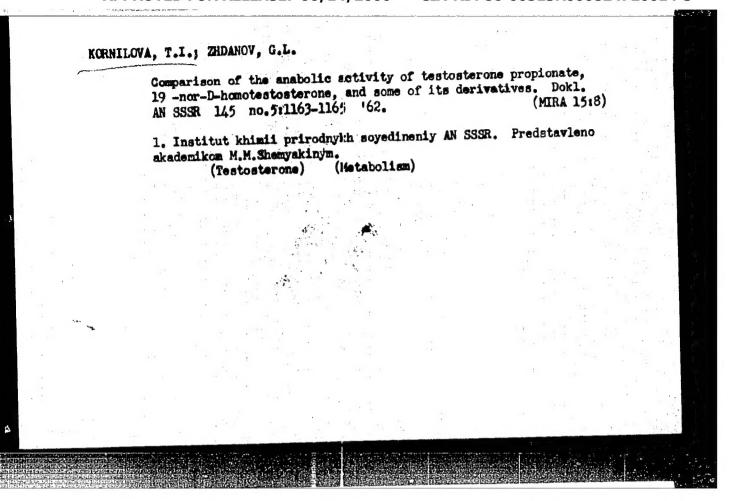
(I)CH=CH

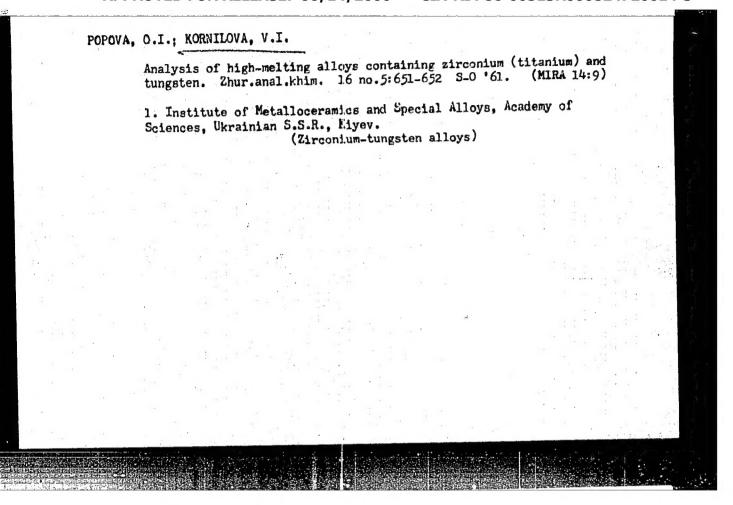
colorless liquid which darkens in air and forms a solid polymer. B.p. = 63-63.5 at 25 mm Hg; d4<sup>20</sup> = 1.3330, n<sub>D</sub>20=1.5007. On ozonization of (I) or its exidation by aq.KMnO4 (II) was obtained which is described for the first time; m.p. = 94-95°C (from hexane).

Card 1/2

CIA-RDP86-00513R000824720014-3" APPROVED FOR RELEASE: 06/14/2000

	KONOV, I.A.; NIZOVKINA, T.V.; KORNILOVA, T.A.		
	Reaction of dichlorocarbase with chloroprene. 32 no.2:664-665 F 162.	Zhur.ob.khim. (MIRA 15:2)	
f	1. Leningradskiy gosudarstvennyy universitet. (Cartene)		
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8/073/63/029/003/007/00<del>9</del> 4057/4125

AUTHORS:

Kornilova, V. I. Nazarchuk, F. N.

TITLE:

Spectrophotometrical investigation of the formation of niobium compounds with the reagent arsenazo

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 29. no. 3, 1963, 330 - 335

TEXT: The process of formation, the composition, and the effect of pH, of oxalic, tartaric, and citric acid, of sodium fluoride and trilon B on the formation of the reddish-violet complex of nicbium and arsenazo was investigated spectrophotometrically in aqueous solutions. The light absorption spectrum of the complex solution (Nb/arsenazo = 4/1) with pH = 0.65 (buffered) shows a maximum at 530 m $\mu$ , that of pure arsenazo at 520 m $\mu$ . Thus, all further measurements were carried out at 580 m $\mu$ . Since no considerable effect of the pH on the optical density of a complex solution (Nb: arsenazo = 2:1) was observed in the range pH = 0.65 - 3 it is assumed that hydrogen ions do not participate in complex formation. The composition of the complex was determined by the method of isomolar series and was found to be Nb: arsenazo = 2:1. The formation occurs

Card 1/3

s/073/63/029/003/007/009 A057/A126

Spectrophotometrical investigation of ...

schematically:  $2Nb + H_6R = Nb_2 + H_6R$  and the corresponding equilibrium constant is  $K = \frac{[Nb]^2[H_6R]}{[Nb_2 + H_6R]} = 1 \cdot 10^{-8}$ . The colour of the complex solutions obeys Lambert-

Beer's law in the range of niobium concentrations from 3 to 35 g/ml. An unusual effect of admixtures of NaF, oxalic, tartaric, and citric acid, and of trilon B on the colour of the complex solutions was observed. The ratio niobium: admixture was varied from 1:0 to 1:25 and up to a ratio of 1:2 a strong increase of the colour intensity was observed. Further addition of the admixture effects a decrease of colour intensity. The composition of the Nb-arsenazo complex does not change, but is destroyed at a tenfold excess of the admixture. The following sequence in relation to the decreasing stability of the complex compound of Nb was observed: oxalic > fluoride > trilonate > tartaric > citric acid. The initial increase of the colour of the niobium-arsenazo complex affected by addition of the admixtures is explained by a transfer of niobium into a more reactive form. Apparently the monomer cationic form of niobium reacts with arsenazo, and an addition of the complexing admixtures contributes to the formation of monomer niobium ions. Similar observations were made by other

Card 2/3

Spectrophotometrical investigation of...

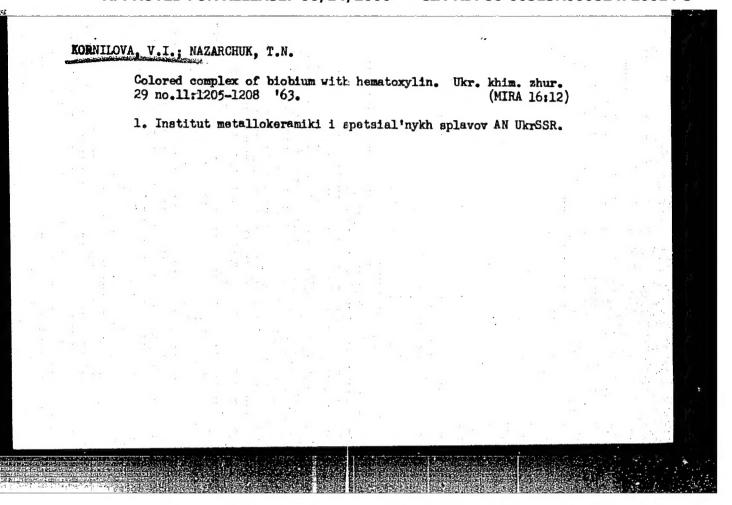
Spectrophotometrical investigation of...

A057/A126

authors with coloured niobium-xylenol orange compounds. According to the obtained results oxalic acid is the most favorable masking compound for niobium in acid solutions. There are 6 figures and 1 table.

ASSOCIATION: Institut metallokeramiki i spetsial nykh splavov AN USSR (Institute of Powder Metallurgy and Special Alloys of the AS UkrSSR)

SUEMITTED: June 23, 1961



# Ectention of atmospheric dust in breathing. Gig.i san. no.6:11-13 Je '53. (NLRA 6:6) 1. Leningradskiy nauchno-issledovatel'skiy sanitarno-gigiyenicheskiy institut. (Dust) (Respiration)

# KORNILOVA, V.N., nauchnyy sotrudnik

Important task of the vineyardists of Daghestan. Zashch.rast.ot vred.i bol. 4 no.4226-27 Jl-Ag \*59.

(MIRA 16:5)

l. Derbentskaya opytnaya stantsiya vinogradarstva i ovoshchevodstva Dagestanskogo nauchno-issledovatel skogo instituta sel skogo khozyaystva.

(Daghestan Grapes Diseases and pests)

(Daghestan-Spraying and dusting in agriculture)

Additional spraying in vineyards. Zashch. rast. ot vred. i bol.

9 no. 4:19-21 \*64. (MIRA 17:5)

1. Derbentskaya opytnaya stantsiya po vinogradarstvu i ovoshchevodstvu.

Nutrition of anchovies in the Sea of Azov. Trudy VMIRO 31:368-377
155.

1.Azovc-Chernomorskiy nauchnyy institut rybnogo khozysystva.

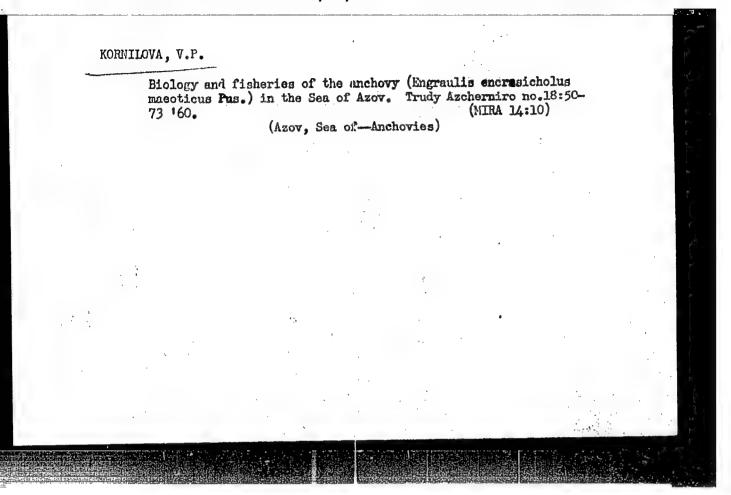
(Azov, Sea of--Anchovies) (Fishes--Food)

# KORNILOVA, V.P., kandidat biologicheskikh nauk.

State of reserves and biology of the Azov anchovy before regulation of river runoff. Trudy VNIRO 31 no.2:196-203 '55. (NIRA 9:8)

1. Asovsko-Chernomorskiy mauchno-issledovatel'skiy institut rybnogo khosyaystva i okeanografii.

(Asov, Sea of-Anchovies)



2h870. KORNILOVA, V. S. i LAVROV, V. V. O Nakhodkakh Tretichnoy Kserofitnoy Flory V Turgaye I Eye Stretigraficheskom Polozhenii. Vestnik Akad. Nauk Kazakh. SSR, 1949, No 5, S 104-07. -- Bibliogr: 9 Nazv.

S0: Letopis' No. 33, 1949

### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720014-3

KORNILOVA, V. S.

Kazakhstan - Paleobotany

New discovery of marly Tertiary flora in Kazakhstan. Dokl. AN SSSR 86 No. 1, 1952

9. Monthly List of Russian Accessions, Library of Congress, December

\_/1952 Unclassified.

KORNILOVA, V.S.; SATPAYEV, K.I., akademik. Hydropteridineae Asolla in the deposits of the Chegan series. Dokl.AN SSSR

(MIRA 6:10) 93 no.1:139-142 N '53.

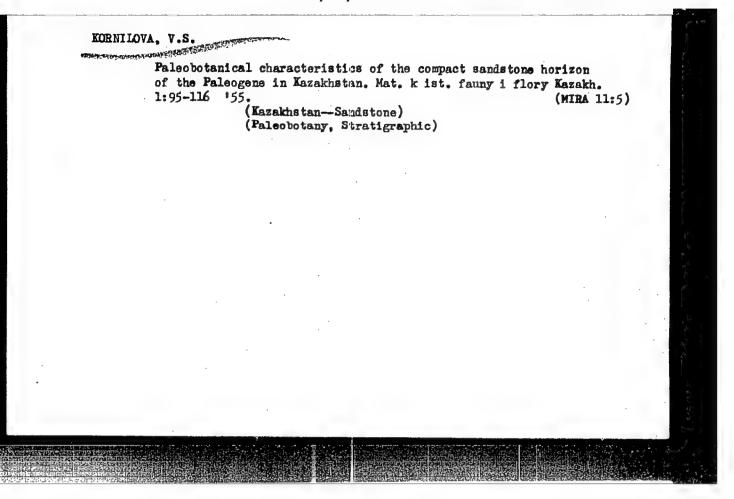
1. Akademiya nauk SSSR (for Satpayev). 2. Kasakhskiy gosudarstvennyy universitet im. S.M.Kirova (for Kornilova). (Turgai River region--Palecntology) (Paleontology--Turgai River region)

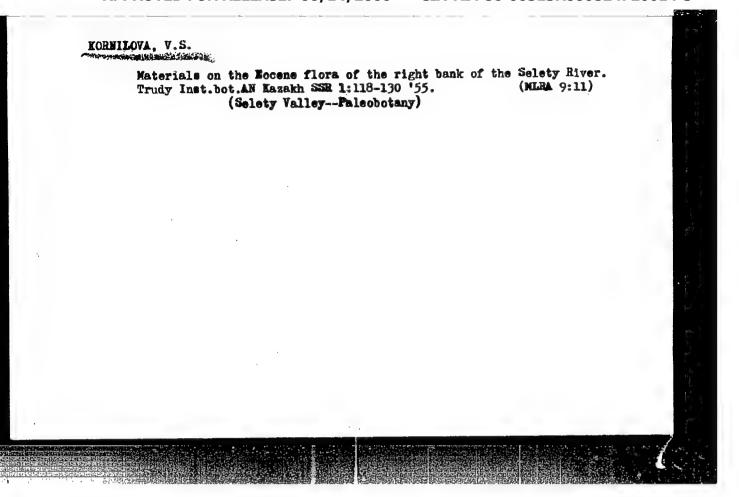
KORNILOVA, V. S.

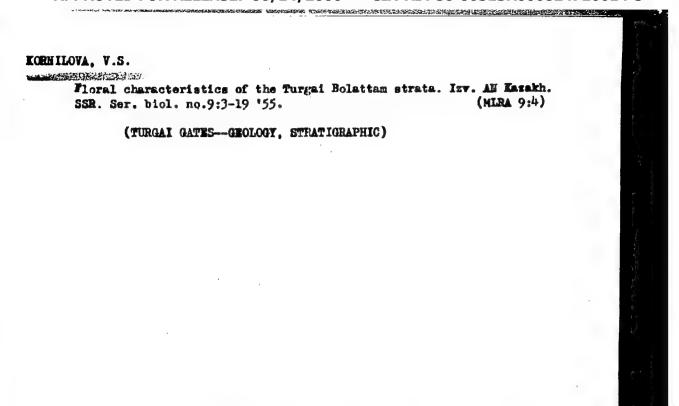
"Continental Tertiary Flore of Tortmole," Uch. zap. Keiskhak. un-te, 15, No. 1, pp 80-94, 1954

The suthor presents the characteristics of the stretigraphic distribution of fossil flora in the tertiary deposits of the region of Tortmola (Rezakh SSR) and describes the plant remains observed in a cross section. The fossil flora is coordinate with the lenses of fine-grain gandstones and sittstones encountered in the layer of salted clays of lagoon origin possibly, which lie over clays of the Chegan series and are covered by sandy-clayey rocks of the continental Turgey series. The plant remains of Tortmola are connected with the deposits of the indricotherium tertes of the Middle Oligocane age and are represented by impressions of lagves and fruits of grasses, daphnogen, laurel, etc. (RinGeol, No 4, 1955)

Sum. No. 581, 7 Oct 55







Poltsvian flora of Karakhetan. Dokl. AN SSSR 104 no.1:124-127
S : 55.

1. Kasakhekiy gesudarstvennyy universitet ineni S.M.Kireva i
Institut betaniki Akademii nank KarSSR. Predstavlene akademiken
K.I.Satpsyevym.

(Kasakhetan--Palesbetany)

KORNILOVA, V.S.

15-57-2-1379

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 2,

p 29 (USSR)

AUTHOR:

Kornilova, V. S.

TITLE:

The Results of a Study Dealing With the Oligocene Flora From Turgay (Itogi izucheniya oligotsenovoy

flory Turgaya)

PERTODICAL:

Tr. In-ta botan. AN KazSSR, 1956, Vol 3, pp 59-101

ABSTRACT:

The history of the Turgay paleobotanical study is subdivided into two stages: from 1858 to 1947, and from 1947 to the present time. Altogether 32 species were established in Turgay and North Aral district toward the end of the first period. This material provided A. N. Krishtofovich with an opportunity to explain the character and genesis of the Turgay flora, relating it to the Turgay province of the Turgay botanical-geographical district. The latter period is characterized by a complex study of stratigraphy,

Card 1/3

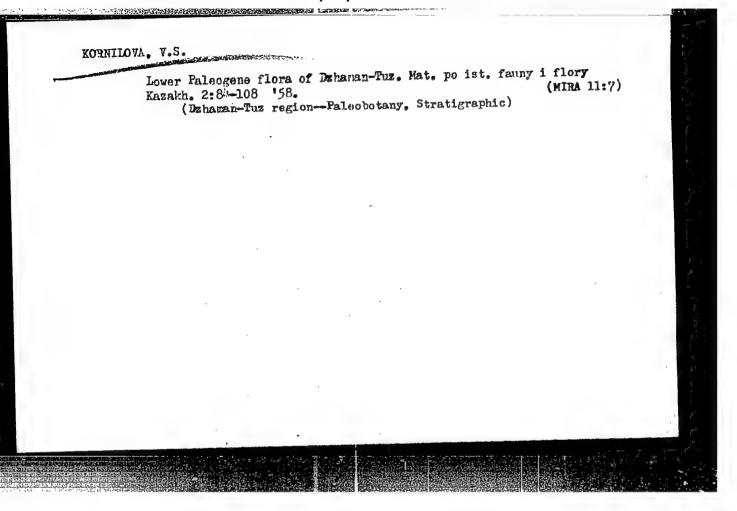
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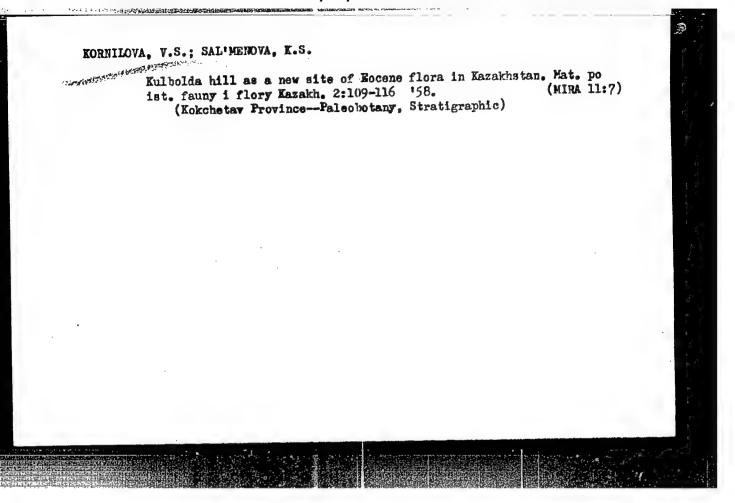
15-57-2-1379

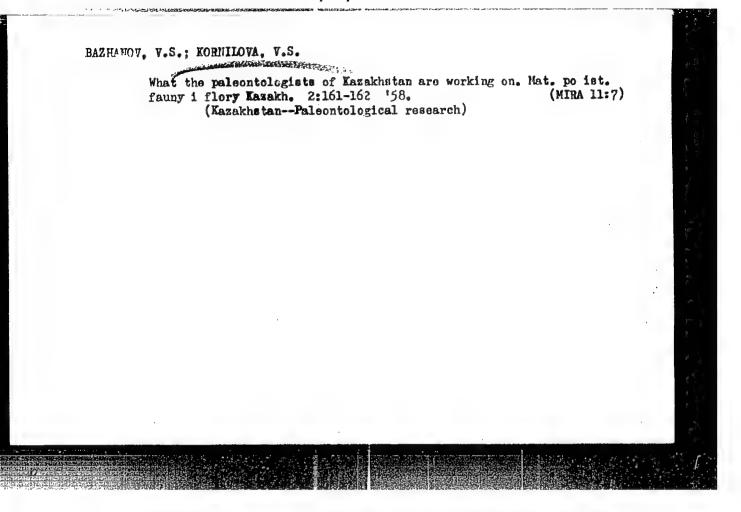
The Results of a Study Dealing With the Oligocene (Cont.)

autochthonously in the lower and middle Oligocene from the Eccene flora through the gradual extinction of the Poltava elements and the development of the Turgay elements. The development of the Turgay flora in the middle Oligocene and its impoverishment in the upper Oligocene is related to the cooling of the climate, which led to the extinction of many wood species. Aridity occurring at the beginning of the Miocene caused further decrease in forest areas and an increase in the desert-steppe areas. The author gives a summary list of plants from the Oligocene floras of Turgay and North Aral district, including 314 titles. L. B.

Card 3/3







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KORNILOVA, Valentina Stepanovna; BAZHANOV, V.S., kand.biolog.nauk, otv. red.; SHMENOV, M.N., red.; PROKEGROV, V.P., tekhn.red.

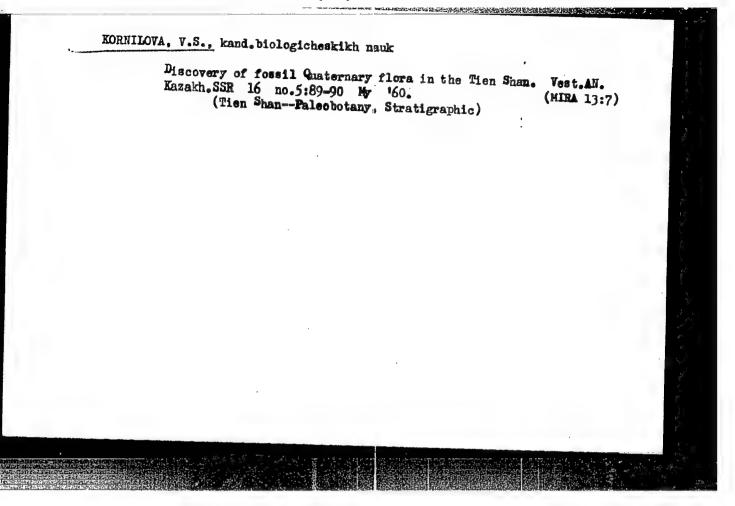
[Lower Miocene flora of Kushuk (Turgay Gates)] Mizhnemiotsenovaia flora Kushuka (Turgaiskii progib). Alma-Ata, Isd-vo Akad. nauk Kazakhskoi SSR, 1960. 128 p. (MIRA 13:7) (Turgay Gates--Paleobotany)

PAVLOV, N.V., akademik; AGEYEVA, N.T.; BAYTENOV, M.B.; GCLOSKOKOV, V.P., kand.biolog.nauk, red.; KCRNILCVA, V.S.; POLYAKOV, P.P., Prinimali uchastiye: VASIL'YEVA, A.N.; CEAZOVA, A.; FISYUH, V.V., BYKOV, B.A., red.; KUBANSKAYA, Z.V., kand.biolog.nauk, red.; SUVOROVA, R.I., red.; ALYEROVA, P.F., tekhn.red.

[Flora of Kazakhstan] Flora Kazakhstana. Glav.red.N.V.Pavlov. Sost.N.T.Ageeva i dr. Alma-Atn. Vol.3. 1960. 457 p. (MIRA 13:5)

1. Akademiya nauk Kasakhakoy SSR, Alma-Ata. Institut botaniki.
2. AN KasSSR (for Pavlov). 3. Chlen-korrespondent AN KasSSR (for Bykov).

(Kasakhatan-Dicotyledons)



KORNILOVA, V.S., kand.biologicheskikh nauk

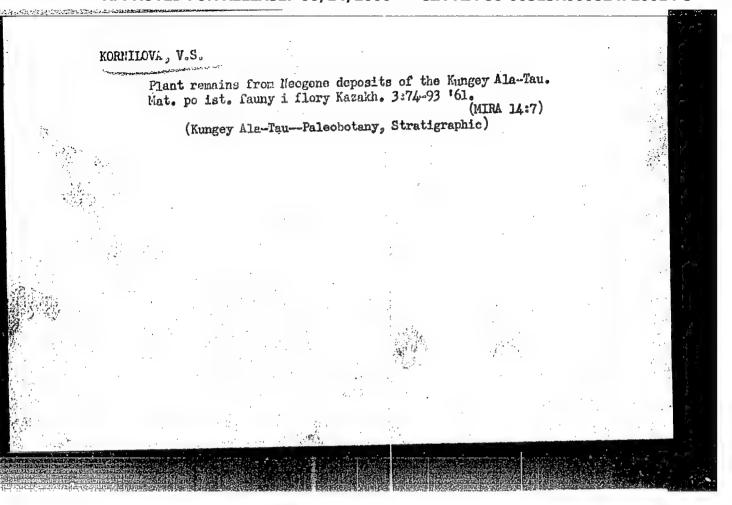
Hew species of Myriophyllum from middle Quaternary sediments of the northern Tien Shan. Vest.AN Kasakh.SSR 16 no.10:101-102 0 '60. (MIRA 13:10)

(Tien Shan—Mater milfoil)

BAYTENOV, M.B.; BYKOV, B.A.; VASIL'YEVA, A.N.; GAMAYUNOVA, A.P.;
GOLOSKOKOV, V.P., kand.biolog.nauk; DOBROKHOTOVA, K.V.;
KORNILOVA, V.S.; FISYUN, V.V.; PAVLOV, N.V., akademik, glavnyy
rad.; KUBANSKAYA, Z.V., kand.biolog.nauk; SUVOROVA, R.I.,
red.; ALFEROVA, P.F., tekhn.rad.

[Flore of Kazakhstan] Flore Kazakhstana. Glav.red. N.V.Pavlov. Sost.N.B.Baitenov i dr. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR. Vol.4. 1961. 545 p. (MIRA 14:4)

1. AN Kazakhakoy SSR (for Pavlov). 2. Chlen-korrespondent AN KazSSR (for Bykov). (Kazakhatan-Botany)

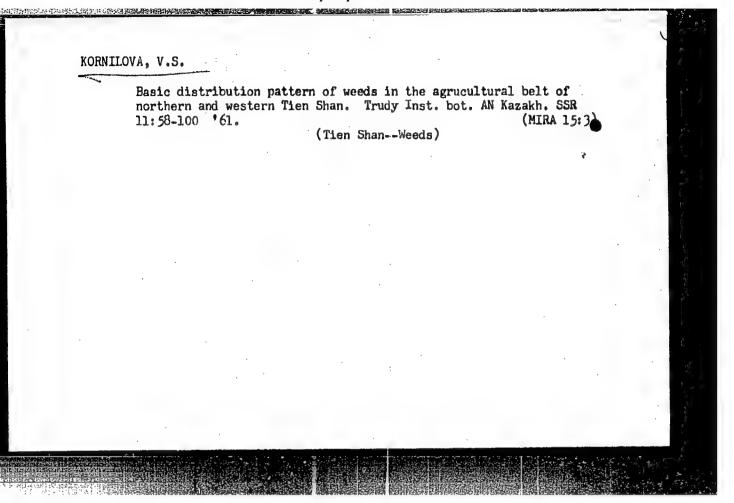


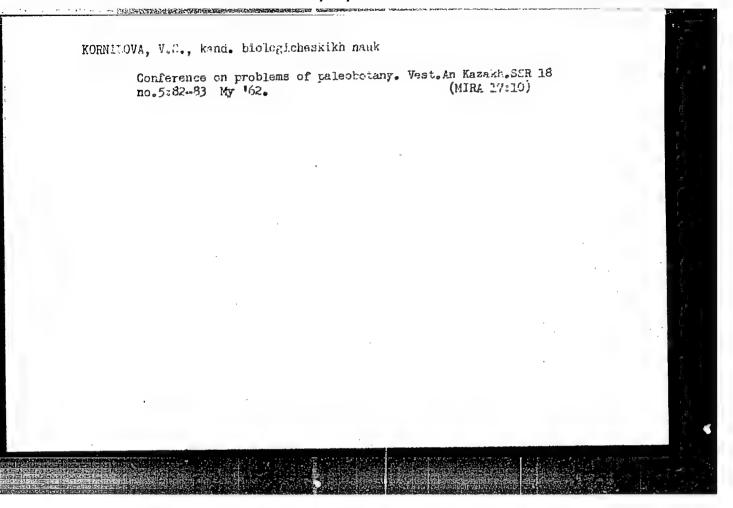
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Expeditionary work of the Section of Paleobiology during 1957-1960. Mat. po ist. fauny i flory Kazakh. 3:188-191 61.

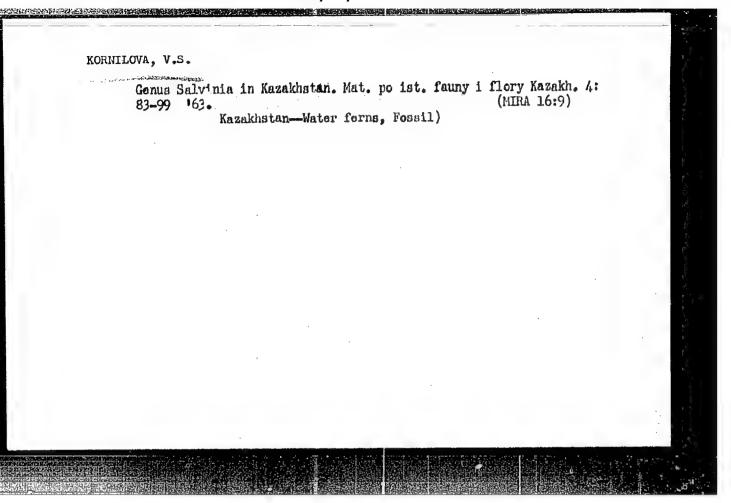
(MIRA 14:7)

(Kazakhstan-Paleontological research)



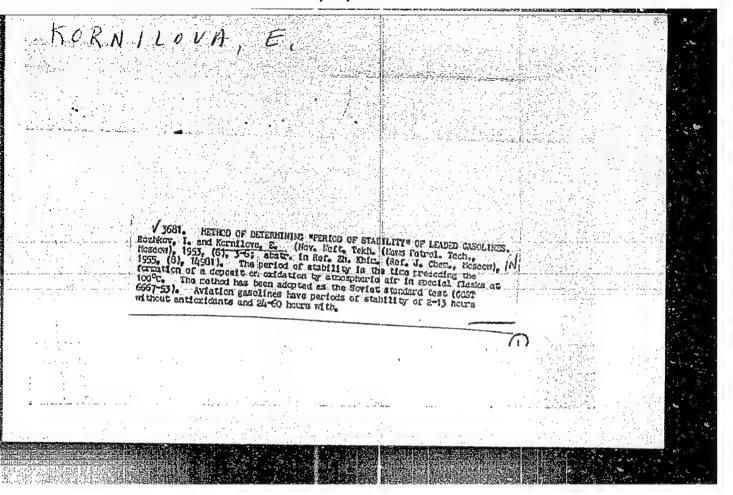


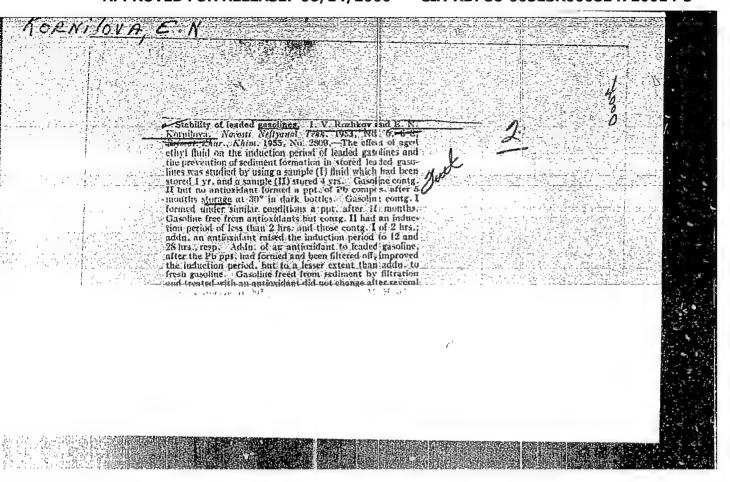
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# KORNILOVA, V.S.

Quarternary floras from the mountain regions of Central Asia, Mat. po ist. fauny i flory Kazakh. 4:113-151 '63. (MIRA 16:9) (Soviet Central Asia—Paleebetany, Stratigraphic)





KORNILOVA, YE.N.

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of

Matural Gases and Petroleum. Motor Fuels. Lubricants,

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62608

Author: Rozhkov, I., Kornilova, Ye.

Institution: None

Title: Stability of Sthylated Aviation Gasoline of Different Chemical

Composition

Original

Periodical: Novosti neft. tekhniki, Neftepererabotka, 1954, No 6, 19-22

Investigation of the effects of the hydrocarbon composition of Abstract:

ethylated aviation gasolines on their stability in storage. Stability was evaluated by the method of GOST-6667-53 and the time of appearance of a precipitate of decomposition products of tetraethyl lead (TEL) on storage. The investigation showed that in extensively branched paraffin hydrocarbons TEL is more stable than in alkylated

arcmatic hydrocarbons. Accordingly B-100/130 gasoline obtained by

Card 1/2

KORNTLOVA YO. N.

Sub.ject

: USSR/Chemistry

AID P - 342

Card

: 1/1

Authors

Rozhkov, I. V., Shimonayev, G. S. and Kornilova, Ye. N.

Title

The effect of tetraethyl lead on the oxidation of

hydrocarbons

Periodical

: Neft. Khoz., v. 32, #5, 70-73, My 1954

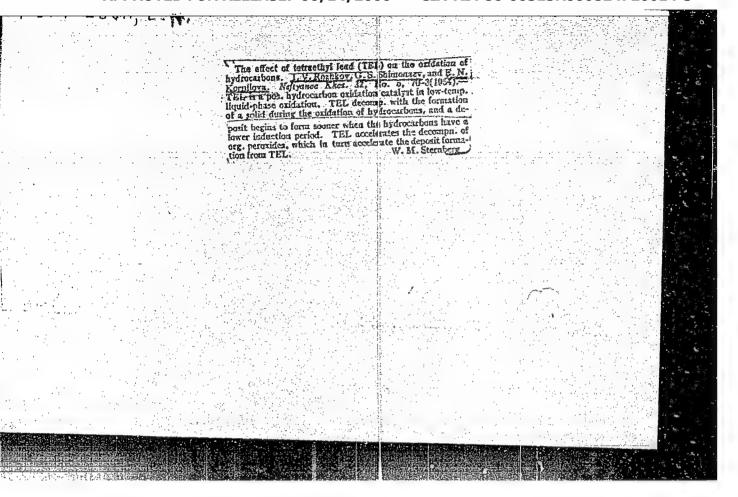
Abstract

The result of study of oxidation of hydrocarbons of the kerosene types in liquid phase and at the presence of 0.01% of tetraethyl lead (TEL) are reported by the authors. The specimens of liquid hydrocarbons with and without TEL were placed in glass ampoules filled with air and tested at 100°C. The results indicate that TEL is a catalyst for low temperature oxidation of liquid hydrocarbons. The TEL also accelerates the decomposition of organic peroxides, which in turn accelerate decomposition of TEL and formation of deposits. 2 tables and 5 Russian references (1939-51).

Institution: None

Submitted

: No date



ROZHKOV, I.V.; KORNILOVA, Ye.W.

Ogidisability of bengine hydrocarbons in the liquid phase in the presence of tetraethyl lead. Khim. i tekh. topl. no.12: 43-47 D '56. (MERA 10:2)

1. Mauchno-issledovatel'skiy institut goryuche-smasochnykh materialov. (Hydrocarbons) (Lead)

## "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720014-3

ROZHKOV, I.V.; SHIMOVAYEV, G.S.; KORNILOVA, Ye.N.; POTEKHIN, B.A.

Method for evaluating chemical stability of ethylated aviation gasoline. Thim. i tekh. topl.i masel no.1:59-66 Ja '57.

(MLRA 10:2)

1. Mauchno-issledovatel kiy institut goryuche-smazochnykh materialov.

(Airplanes--Fuel)

KORNILOVA, E.M.

AUTHOR: Rozhkov, I.V. and Kornilova, E.N.

65-4-8/12

TITLE: On the mechanism of the action of anti-oxidants on the process of liquid phase oxidation of ethylated aviation petrols (O mekhanisme deystviya anickisleteley na protsess zhidkofaznogo okisleniya bensinov.)

PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and Technology of Fuels and Inbricants)1957, No.4, pp. 47-53 (USSR)

ABSTRACT: The above problem was studied using fresh and to some extent oxidised samples of petrol and the following anti-oxidants: paraoxydiphenylamine, 4,4'-diaminodiphenyldisulphide, diethyl-p-phenylenediamine, 2,6-ditertiary butyl-4-methylphenol and 2,4-diaminodiphenylamine. Changes in the physico-chemical properties of ethylated aviation benzene exposed to light at room temperature are shown in Table 1; the influence of admix-tures on the oxidation process is shown in Figs. 1-6, and changes in properties of "corrected" petrol on storage is shown in Table 2. It was found that under conditions of liquid phase oxidation, lead tetraethyl decomposes with the formation of active products considerably easier than peroxides. These decomposition products initiate the decomposition of hydroperoxides. Therefore the additives capable of inhibiting the decomposition of lead tetraethyl also inhibit the decomposition of

Card 1/2

CIA-RDP86-00513R000824720014-3" APPROVED FOR RELEASE: 06/14/2000

On the mechanism of the action of anti-oxidants on the process of liquid phase oxidation of ethylated aviation petrols (Cont.) hydroperoxides. Anti-oxidants inhibiting oxidation of ethylated benzene when added before the oxidation process is started, are capable of inhibiting the already started decomposition of lead tetraethyl in gasoline. The possibility of increasing the stable of ethylated gasoline in which the decomposition process of lead tetraethyl has already started by an addition of parafigures and 7 Slavic references.

ASSOCIATION: NII GSM

AVAILABLE:

**Card** 2/2

Kerintera Jetak

AUTHORS 3811 FOR 70 F 4 150714 12000 G. 0014-10 PSG-00513R000824720014

TITLE: Phenols from processing Cherenkhovsk coals as antioxidants for fuels. (Fenoly pererabotki cherenkhovskikh ugley kak antiokisliteli dlya topliv).

PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and Technology of Fuels and Lubricants) 1957, No.6, pp.58-62

ABSTRACT: Oxidation inhibiting properties of phenols obtained during semicoking of the Cheremkhovsk coals were investigated. Numerous samples of phenols were tested, but the results for three most effective samples are given: 1) phenols separated from spent ammonia liquor, by solvent extraction (the method is not given) and distilled in vacuo; 2) individual fractions of these phenols (the composition - table 1), and 3) some phenolic fractions separated from tar (e.g., fraction boiling 240-330 C). Oxidation inhibiting properties of phenols were tested by rapid oxidation of samples of various fuels (containing components obtained by thermal cracking) inhibited with the antioxidants investigated in comparison with the same fuels containing already known inhibitors.

HOZHKOV, I.V.; KORNILOVA, Ye.N.; ENGLIN, B.A.

Chemical stability of ethylated gasolines of varied hydrocarbon composition. Azerb. neft. khoz. 37 no.1:34-36 Ja '58. (MIRA 11:6) (Gasoline)

85180

11.1210

s/065/60/000/011/006/009 E194/E484

AUTHORS:

Rozhskov, I.V., Klimov, K.I., Kornilova, Ye.N. and

Vilenkiy, A.V.

TITLE: The Service Performance of Fuel Type T Stabilized

With Anti-Oxidant #4-16 (FCh-16)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.11, pp.49-53

TEXT: Soviet jet fuels for civil aviation are grades T-1, TC-1 (TS-1) and T-2. Fuel T-2 is a wide gasoline-kerosene cut and fuels T-1 and TS-1 are kerosene cuts produced by straight distillation. Fuel type T is a jet-fuel containing gasoline fractions including thermally cracked components, The use of thermally cracked components considerably improves the supply position and the properties of the fuel are generally satisfactory, except that because of the presence of unsaturated hydrocarbons the fuel is much more subject to auto-oxidation than straight distillate fuels. Accordingly, the present work considers in particular the results of long-term storage of fuel containing thermally cracked components stabilized with anti-oxidant FCh-16. The wide-cut fuels are not such good lubricants as kerozene and may give rise to increased wear in fuel pumps. Accordingly, Card 1/4

85180

S/065/60/000/011/006/009 E194/E484

The Service Performance of Fuel Type T Stabilized With Anti-

this property was also studied. oxidation test results on fuels produced by different refineries. The oxidation tests were made at a temperature of 110°C for eight hours, oxidation being assessed by the actual resin content at a temperature of 185°C. The fuels were stabilized with 0.05% weight anti-oxidant FCh-16 which consists of phenols that are by-products of semi-coking of Cheremkhovsk coal. anti-oxidant FCh-16 is a more effective anti-oxidant for thermally Previous work has shown that cracked fuels than wood-rosin anti-oxidant, ionol and paraoxy-Storage tests were made for 2.5 years under severe conditions with mean summer temperatures up. to 30 to 35°C. In the fuel stabilized with anti-oxidant FCh-16 there was no increase in actual resins or in neutralization value. given in Table 2 show that the remaining physical-chemical properties of the fuel containing cracked component and stabilized with FCh-16 did not change during 2.5 years storage and remained within the standard limits. The anti-wear properties of fuels were investigated on a rig KB-1 (KV-1) illustrated schematically

s/065/68/000/011/006/009 E194/E484

The Service Performance of Fuel Type T Stabilized With Anti-Oxidant FCh-16

in Fig.2 in which a steel cylindrical roller 5 mm diameter rubs against a spiral of wire 2 mm diameter, wound on the cylindrical surface of a disc. The speed of loading and other conditions are given and the loads to cause scoring with various commercial fuels are plotted in Fig. 3. It is shown that the fuels differ considerably in their anti-wear properties, of the straight distillate fuels grade T-1 is the best, T-2 is the worst and TS-1 is intermediate. Samples of fuel containing thermally cracked components and additive FCh-16 are better in anti-wear properties than fuel grade T-2 of the same viscosity and are not worse than fuel TS-1 although of somewhat lower viscosity. order to explain the reason for this wear, tests were made with the components of the fuel to investigate the influence of adding FCh-16 and the results are plotted in Fig. 4. that product FCh-16 is able to improve the anti-wear properties of It will be seen It is concluded that a fuel containing 30% of cracking component and 0.05% anti-oxidant FCh-16 is of good oxidation stability and can be stored in the southern regions for not less

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824720014-3"

85180 \$/065/60/000/011/006/009 E194/E484

The Service Performance of Fuel Type T Stabilized With Anti-Oxidant FCh-16

than 2.5 years and, moreover, it is of satisfactory anti-wear properties. There are 4 figures, 2 tables and 6 references: 5 Soviet and 1 English.

X

Card 4/4

200%

11.1210

5/065/61/000/005/002/002 E030/E435

AUTHORS:

Rozhkov, I.V. and Kornilova, Ye.N.

TITLE:

Influence of Antioxidants on the Kinetics of

Oxidation of the Benzene/Kerosene Fraction of Synthene

PERIODICAL: Khimiya i tekhnologiya torliv i masel, 1961, No.5,

pn.54-57

An experimental study has been carried out on inhibition TEXT: of oxidation in "synthene", a product obtained from the oxidation of carbon and hydrogen, and containing 5.5% of unsaturated The results are discussed in terms of the threefold classification by K.I.Ivanov and Ye.D.Vilyanskaya (Ref.1 to 3) of antioxidants: first group, effective only on introduction into the oil at the start of oxidation and ineffective if added subsequently; second group, effective if introduced initially and also effective against branched chain peroxides; third group, effective both on introduction and in the autocatalytic stages and possessing moderate effectiveness against peroxides, but not high overall effectiveness. The 150 to 250°C fraction of synthene was studied. Oxidants added were Card 1/3

20056

Influence of Antioxidants ...

S/065/61/000/005/002/002 E030/E435

analytical grade hydroquinine in alcohol solution, pure ionol (2.6-ditertiary butyl-4-methylphenol) solutions in isopropyl benzene of analytical grade diphenylamine, a-naphthalamine, β-naphthol, and grade Ty-3639-52 (TU-3639-52) paraoxydiphenylamine. The synthene was heated in a molybdenum-glass flask up to 130°C and the temperature maintained for 5 hours. Additives were introduced before heating, or 2, 3 or 4 hours after the start of heating. The specimen was 50 ml size and 5 ml samples were withdrawn every hour for analysis of acidity. All the additives gave similar performances, belonging to the third category, and typical curves are shown in Fig.2 for diphenylamine (plot a) and paraoxydiphenylamine (plot b): time of oxidation (hours) vs acid value (mg KOH/100 ml). It cannot be assumed that these additives will always be in the third group, since a previous study by the authors showed that the type of kinetics depended not only on the chemical structure of the additive but also on the chemical structure of the fuel. There are 4 figures, 1 table and 8 references: 7 Soviet and 1 non-Soviet.

Card 2/3

36931

S/081/62/000/007/021/033 B168/B101

11.0172

Rozhkov, I. V., Sablina, Z. A., Gureyev, A. A., Kornilova

Ye. N.

TITLE:

AUTHORS:

Anti-oxidants for fuels

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 7, 1962, 546-547, abstract 7M172 (Sb. "Prisadki k maslam i toplivam". N.,

Gostoptekhizdat, 1961, 388-392)

TEXT: The effectiveness and the mechanism of the action of anti-oxidants intended for automobile gasolines containing components from thermal and catalytic cracking, ethylated aviation gasolines produced by straight distillation, turbojet fuels, tractor kerosenes and diesel fuels were investigated. It was established that the parameters referred to are not determined solely by the structure of the actual inhibitor but depend on the type of the oxidizing hydrocarbons and on the presence in the fuel of non-hydrocarbon additives (e.g. T.E.L.). The most effective anti-oxidant for ethylated aviation gasolines is 0.004-C.005% by weight p-hydroxydiphenylamine, which ensures that the gasolines will keep without loss of

Card 1/2

Anti-oxidants for fuels

S/081/62/000/007/021/033 B168/B101

conditions for 3-4 years. The most efficient anti-oxidant for stabilizing automobile gasoline A -72 ( $\Lambda$ -72), which contains  $\pm 70\%$  components from single-stage catalytic cracking, was found to be  $\overline{\Omega}$ 4-16 (FCh-16) (0.03% by weight); this anti-oxidant consists of phenols extracted from the aqueous fraction of low-temperature carbonization of Cheremkhovo coals and is more effective than wood-tar anti-oxidant, Ionol, or p-hydroxydiphenylamine. Being a surface-active substance, FCh-16 improves the anti-wear properties of fuels. An addition of 0.05% by weight FCh-16 stabilizes for 8 1/2 years those fuels which contain unsaturated hydrocarbons. The addition of anti-oxidants to fuels ensures the retention of their thermal stability at its initial level during storage. 11 references. [Abstracter's note: Complete translation.]

Card 2/2.

L 12399-63 EWP(j)/EPF(c)/EWT(m)/BDS AFFTC/AFGC Pc-4/Pr-4 EM/RM/MH ACCESSION NR: AP3CO1670 S/0065/63/000/006/0060/0065 76

AUTHOR: Kichkin, G. I.; Rozhkov, I. V.; Vilenkin, A. V.; Kornilova, Ye. N.

TITLE: Effect of additives on anti-wear properties of fuels

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1963, 60-65

TOPIC TAGS: additives, anti-wear, fuels; anti-oxidants, dispersant stabilizers, metal deactivator, surface-active additives

ABSTRACT: The anti-wear properties of fuels T-1 and TC-1 (naphtha-kerosene fraction) and T-2 (naphtha-kerosene-benzene fraction) were investigated. T-1 showed best and T-2 the worst anti-wear properties; increasing temperature from 20 to 150 degrees noticeably reduced the anti-wear properties. Addition of small amount (0.01% by weight) of antiwear additives (s-organic compounds, or thiophosphoric acid esters) developed for oils, increased anti-wear properties of the fuels to the same extent as the addition of anti-oxidants and dispersant stabilizers. A metal deactivator showed very little surface-active 7 effect, but surface active phenols or phenylenediamine improved fuel stability

Card 1/2

T. 12399-63

ACCESSION NR: AP3001670

and increased anti-wear property. "K. I. Klimov was one of the supervisors at the start of the work." Orig. art. has: 3 ligures and 3 tables.

ASSOCIATION: none

SUBMITTED: CO

DATE ACQ: 08Jul65

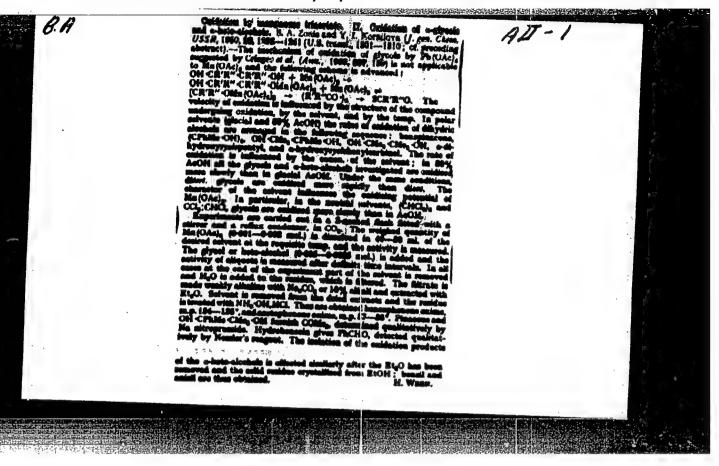
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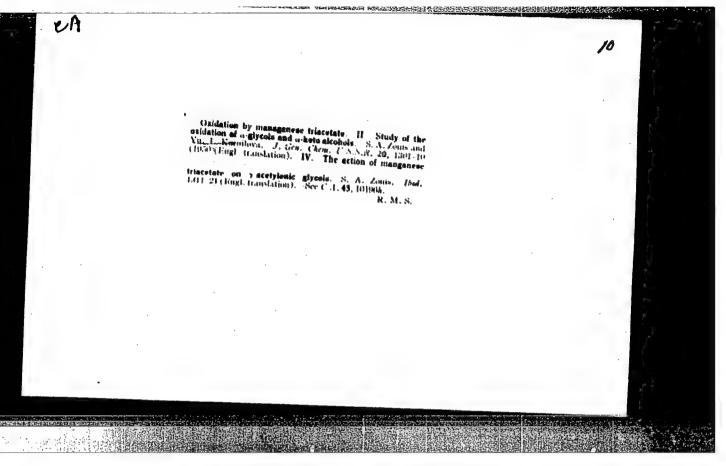
SUB CODE: none

NO REF SOV: 007

OTHER: 003

Card 2/2





KORNILOVA, YU. I. and DOBRYANSKIY, A. F.

Catalytic Cleavage of Symmetrical Diphenylethane by the Action of Aluminum Chloride, Page 311, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766

Chair of Pyrogenic Processes, Leningrad Technological Inst imeni Lensovet

Heating (CH<sub>2</sub>Ph)<sub>2</sub> (I), with AlCl<sub>3</sub> to 230-50° or 330-50° results in 2 simultaneous processes: cleavage and condensation. I undergoes solely the unsymetheavage, regardless of conditions, yielding C6H6 and condensation products of linear structure. The yields depend on conditions. If the low boiling material is not removed continuously, the yield of distillable material (mostly C6H6) declines. The yield of distillable material rises with the increase of catalyst conen. from 1% to 10%. Oxidation of the condensation products gave BzOH and  $p-C6H4(CO_2H)_2$ .

#### "APPROVED FOR RELEASE: 06/14/2000

MODULIDOVAL THE IS BUILD DODRETHINDETT, A. F.

CIA-RDP86-00513R000824720014-3

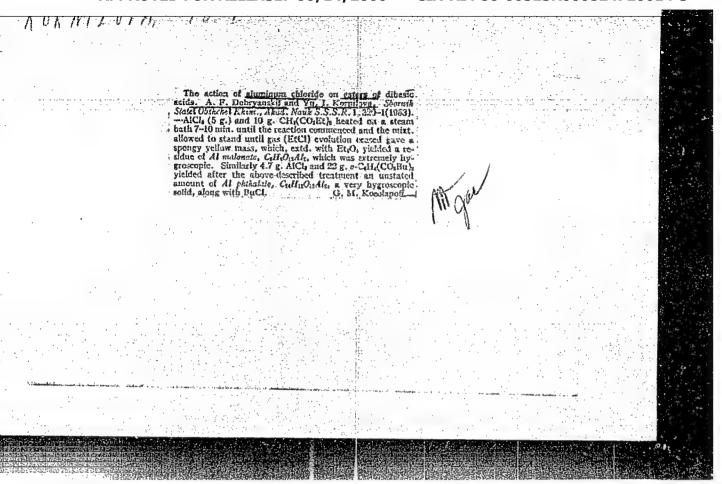
"Condensation of Ethylene Chloride with Aromatic Hydrocarbons in the Presence of Aluminum Chloride," Page 315.

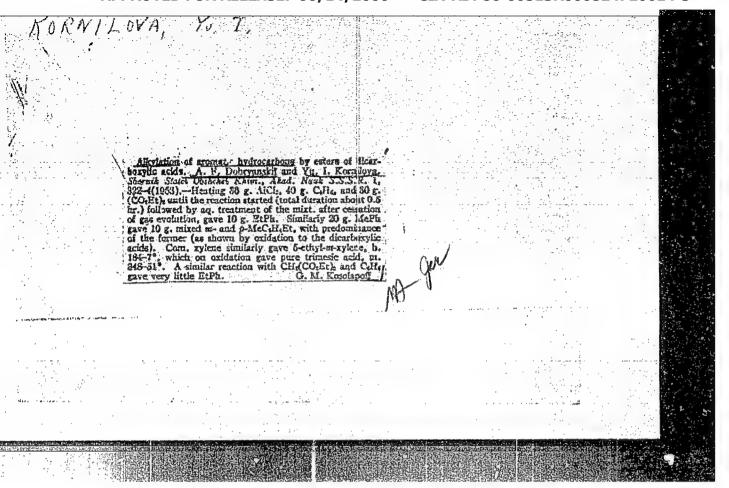
Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad 1953, pages 762-766.

Chair of Pyrogenic Processes, Leningrad Technological Inst imeni Lensovet

The reaction of (CH2Cl)2 with C6H6 in the presence of AlCl3 yields (PhCH2)2

and resins, or condensation products. (CH2Cl)2 (99 g.) and 234 g. C<sub>6</sub>H<sub>6</sub> with 10 g. AlCl<sub>3</sub> gave, after the usual aq. treatment, 55% (PhCH<sub>2</sub>)2, b<sub>15</sub> 152-5°, and 40 g. product, b<sub>16</sub> 155-300°. Some higher boiling residue was left. Repeated distn. gave p-C<sub>6</sub>H<sub>4</sub>(CH<sub>2</sub>CH<sub>2</sub>Ph)2m b<sub>3</sub> 212°, m. 47-8.5°, and (p-PhCH<sub>2</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>)2, b<sub>3</sub> 270-8°, m. 76-85°, (possibly a mixt. of isomers). Oxidation gave terephthalic acid and BzOH. The same oxidation products were obtained from the tarry distn. residue. Similarly MePh gave up to 65% ditolylethane, b<sub>3</sub>142°, d<sub>20</sub>0.9681, which oxidized with KMnO<sub>4</sub> to terephthalic and isophthalic acids, with traces of toluic acids, thus indicating the formation of m- and p-isomers in the condensation. The higher boiling products yielded 1,3-bis(2-(p-methylphenyl)ethyl)-5-methylbenzene, b<sub>3</sub>, 226-8°, in. 62-9°.





### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720014-3

## KORNILOVA, Yu. I. and A. F. Dobryanskiy

Catalytic Decomposition of Symmetrical Ditelylethane by the Action of Aluminum Chloride, Page 325

Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I. Moscow-Leningrad 1953, pages '62-766

Laboratory of Pyrogenic Processes, Leningrad Technological Inst imeni Lensovet

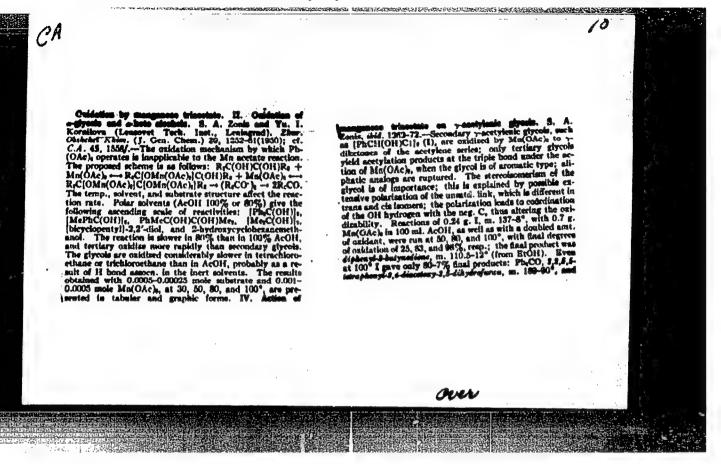
Heating mixed 1,2-di(m-tolyl)ethane and 1,2-di(p-tolyl)ethane with AlCl<sub>3</sub> to 230-50° led to cleavage of the former in 2 directions, predominant reaction was cleavage of MeFh, a less@r reaction was the cleavage of xylene (m- and p-isomers as identified after oxidation to the acids). The extent of the reaction rises with temp. and with duration as well as with increase of the proportion of AlCl<sub>3</sub> used. Attempts to oxidize the high boiling products failed to yield any conclusive results.

## "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720014-3

SEMENOV, S.S.; KORNILOVA, Yu.I.

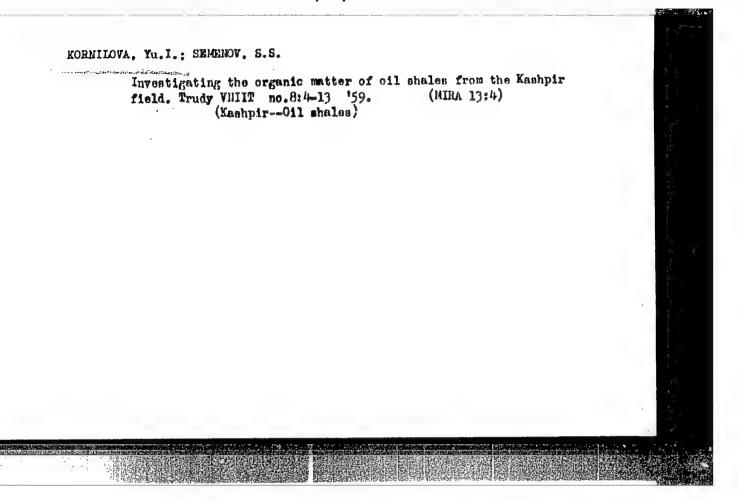
Action of alcohol-alkali solution on organic matter of Baltic shales. Trudy VNIPS no.3:5-10 '55. (MLRA 8:12)
(Baltic Sea region--Oil shales) (Hydrocarbons)



SEMENOV, S.S.; KORNILOVA, Yu.I.; GURREVICH, B.Ye.; ORLOVA, N.S.

Detection and analysis of functional groups in organic matter of Baltic shales. Trudy VNIIPS no.3:11-15 '55. (MLRA 8:12)

(Baltic Sea region—Oll shales) (Hydrocarbons)



SEMENOV, S.S.; KORNILOVA, Yu.I.; DOESHINA, N.D.

Methylation of oil shale kerogen by diagomethane. Trudy VNIIT no.8:28-34 '59. (MIRA 13:4)

(011 shales) (Kerogen) (Methylation)

SOVALOVA, A.A., kand.tekhn.nauk, dotsent; KORNILOVA, Z.I., inzh.

Heat resistance of certain nickel-base alloys. Trudy MATI no.31:
107-112 '58. (MIRA 11:7)

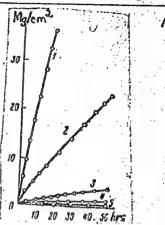
(Nickel alloys—Testing) (Heat-resistant alloys)

L 28538-66 ENT(m)/EWP(t)/ETI JD/WB/GD ACC NR: AT6012383 SOURCE CODE: UR/0000/65/000/000/01/3/01/7 AUTHORS: Kornilova, Z. I.; Ignatov, ORG: none TITIE: A structural-kinetic study of the oxidizability of titanium alloys SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana 1 yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 143-147 TOPIC TAGS: titanium alloy, metal oxidation, oxidation kinetics, composition, temperature, phase transition / AT12 titanium alloy phase ABSTRACT: The results are given of a study of the kinetics of oxidation of titarium alloys of the AT type and of the phase composition of the scale formed on them. The kinetic curves of oxidation were obtained by the method of intermittent weighing on a balance with a sensitivity of  $2 \cdot 10^{-5}$  g. Specimens in the form of  $10 \times 10 \times 4$ -mm wafers were cut from forged and annealed (at 9500) rectangular rods. With prolonged exposure, the oxidation kinetics of AT alloys are functions of temperature and time (see Fig. 1). In the scale formed at 800-10000, rutile and Y-Al203 were detected. Card 1/2

L 28538-66

ACC NR: AT6012383

Fig. 1. Kinetic curves of oxidizability in air of AT12 alloy: 1 - 1000C; 2 - 900C; 3 - 800C; 4 - 700C; 5 - 600C.



A metallographic study of the scale on pure titanium and its alloys showed that the thickness of the oxygen-saturated layer on pure titanium is considerably greater than that on the alloys. The aluminum in the alloys stabilizes the phase <-Ti and increases the point of <-β transition by 50-100C, depending upon the concentration. The intensive oxidation of the titanium alloys at 800-1000C is explained by: 1) the presence of an allotropic <-β transition; 2) intensive reaction of the scale with the metal; 3) the high ratio of the volume of TiO<sub>2</sub> to the volume of the metal; and 4) the absence in the scale of chemical compounds of TiO<sub>2</sub> and oxides of the alloy components that are thermodynamically stable at 800-1100C.

SUR COUR: 11/ SUBM DATE: 02Dec65/ ORIG REF: 004

KORNILOVICH, A.

Sub.ject USSR/Aeronautics AID P - 2448

Pub. 135 - 14/19 Card 1/1

Author Kornilovich, A., Lt. Col. Eng.

Astashenkov, P. T., Elektrichestvo na samolete (Elec-Title tricity in aircraft), 1955. (Book review)

Periodical: Vest. vozd. flota, 8; 82-83, Ag 1955

: This book is about the electric equipment of the modern Abstract aircraft. It belongs to the popular science library

series for soldiers and sailors.

Institution: None

Submitted : No date

3BQ00824720014 **APPROVED FOR RELEASE: 06/14/2000** 

AUTHOR: Kornilovich, A.A., Engr Lt Col

High-altitude Equipment of Aircraft (Vysotnoye oborudovaniye TITLE:

samoletov)

PERIODICAL: Vestnik vozdushnogo flota, 1959, Nr 1, pp 88-89 (USSR)

ABSTRACT: Thus article is a critical review of the book Vysotnoye oborudovaniye samoletov, High-altitude Aircraft Equipment, by L.T. Bykov, M.S. Yegorov, and P.V. Tarasov, published by the oborongiz (State Publishing House of the Defense Industry) Moscow, 1958, 392 pages.

Card 1/1

KRAVCHENKO, A.F.; KORNILOVICH, A.A.; SIKS, L.A.; SIROTKINA, V.P.

Electric properties of silicon with phosphorus admixture. Izv. SO AN SSSR no. 10. Ser. tekh. nauk no. 3:79-85 \*65 (MIRA 19:1)

l. Institut fiziki poluprovodnikov Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted August 27, 1964.

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720014-3

L 2551-66 EWT(m)/EWP(w)/EPF(c)/EWP(1)/T/EWP(t)/EWP(b) IJP(c) JD/RM ACCESSION NR: AP5021083 UR/0288/65/000/002/0153/ 537.311.33 AUTHOR: Kornilovich, A. A.; Kravchenko, A. F. TITLE: Effect of heat treatment on the electrical properties of silicon containing phosphorus as an impurity SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 2, 1965, 153-154 TOPIC TAGS: high temperature annealing, low temperature annealing, Hall effect, silicon, phosphorus impurity, free electron mobility, donor concentration, electrical resistance, electroneutral silicon dioxide ABSTRACT: Heating of Si to temperatures above 3500 markedly changes its electrical properties; the reason for this is not conclusively known, although certain theories on the interaction of oxygen with atoms of silicon and atoms of impurities have been advanced. In this connection, the authors present the results of an experimental investigation of electrical resistance, concentration, and free electron mo-bility as a function of the time and temperature of the heat treatment (annealing) of three groups of n-Si containing different amounts of P impurity. The annealing was performed in a vacuum (10<sup>-3</sup> mm Hg) at from 400 to 11000 for 30 min to 40 hr, and the cooling, for 10 hr, inside the furnace. The effect of annealing differed Card 1/3

L 2551-66

ACCESSION NR: AP5021083

depending on the temperature range in which it was performed: above 8000 the Hall coefficient and free-electron mobility tended to increase (most sharply in the material with the lowest content of P), while electrical resistance remained constant; below 8000 (low-temperature annealing) the Hall coefficient and the electrical resistance of 8i decreased while electron mobility somewhat increased. Annealing beyond 50 min no longer affected the electrical characteristics and parameters of Si. The differences in the effect of heat treatment on electrical properties are conditioned by the presence of oxygen in silicon in the form of monodisperse Si<sub>2</sub>O groups. In the process of the heating of Si to 10000 the oxygen atoms become regrouped

8120 - 8102 + 81

The electrically neutral groups of SiO2 interact with the phosphorus

 $5810_2 + 4P + 2P_20_5 + 581$ 

The resulting oxides of the impurity react with SiO2

 $xP_2O_5 + y8iO_2 + P_xSi_yO_2$ 

As a result, the P and O atoms arerbound into electrically neutral: PxSi, O2 groups and the

Card 2/3

CESSION NR:	AP5021083			2
lica glasses berated oxyg e crystal, i eatment lead oups. These ease in free tributable t	, the oxides en diffuses t s distributed s to the form complexes ma -electron con o the decreas	des. On heating to 13000 of the impurity, and the through the interstices at in the form of Si <sub>2</sub> O growth of electrically action of electrically action of electrically action. The increase in the number of therm to has: 3 figures.	the molecules of phosilicon dioxides decand, following rapid coups. By contrast, low tive SiO4 complexes/frionized, thus leading the in electron mobility	sphorus- y, and the oling of -temperature om 61 <sub>2</sub> 0 to an in- is clearly
oirsk ( <u>Insti</u>	tute of Semic	ki poluprovodnikov Sibir onductor Physics, Siberi	an Department, AN SSSR)	**
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ENT(m)/ENP(w)/T/ENP(t)/EMP(b) L 14562-66 IJP(c) ACC NR. AP6002015 SOURCE CODE: UR/0288/65/000/003/0079/0085

AUTHOR: Kravchenko, A. F.; Kornilovich, A. A.; Slaks, L. A.; Sirotkina, V. P.

ORG: Institute of Semiconductor Physics, Siberian Branch, AN SSSR, Novosibirsk (Institut fiziki poluprovodnikov Sibirakogo otdeleniya AN SSRI

TITLE: Electrical properties of silicon with phosphorus admixtures

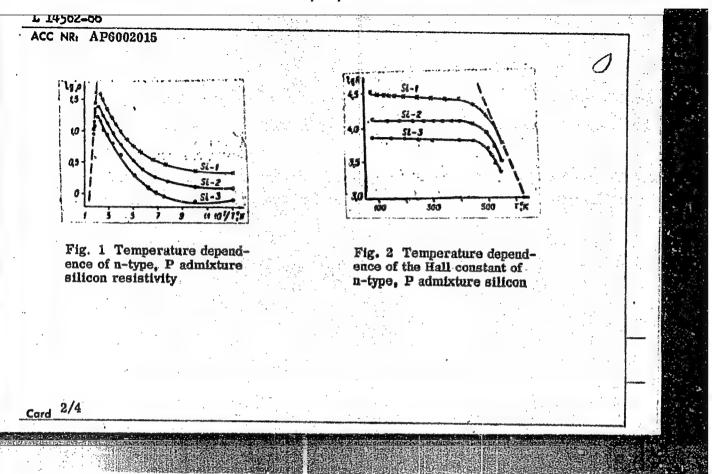
SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, nc. 3. 1965, 79-85

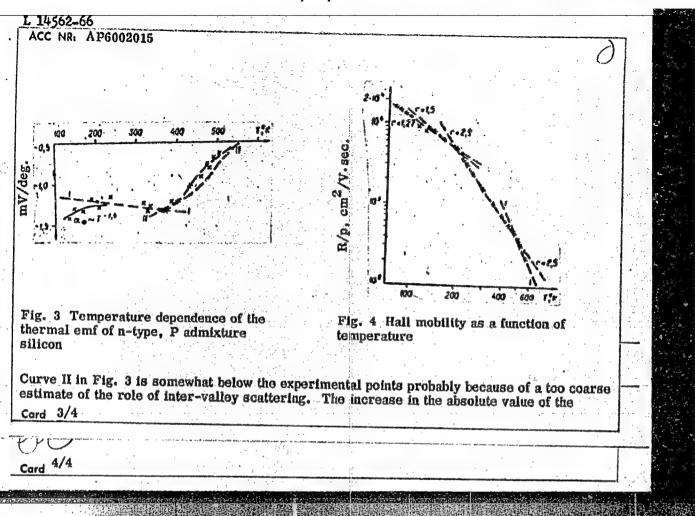
TOPIC TAGS: silicon semiconductor, specific resistance, Hall effect, thermoelectromotive force, phonon scattering

ABSTRACT: The majority of carlier works concerning the influence of phosphorus on the physical properties of silicon were carried out on polycrystalline materials in which the intercrystalline potential barriers made the interpretation of kinetic effects extremely complicated. In view of the present-day uses of n-type silicons with low P content, the authors investigated effects in three types of Si samples (Si-1, Si-2, Si-3) with differing P concentration having at room temperature specific resistivities of 18, 9, and 6 ohm cm. Experimental results are summarized in Figures 1 through 4. A detailed theoretical interpretation of the experimental results is also given. The theoretical dashed curves in Fig. 4 are in good agreement with experimental data except in the low temperature region where the deviation may be due to admixture scattering which was neglected during the theoretical derivation.

UDC: 539.293:538.632 639.295:537

Card 1/4





DUBININA, V.N.; KORNILOVICH, I.A.

Plumboharosite in the oxidation zone of lead-zinc deposits of eastern Transbaikalia. Zap. Vses. min. ob-va 88 no. 3:323-328 59.

(MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel skiy geologicheskiy institut, Leningrad. 2. Deystvitel nyy chlen Vsesoyuznogo mineralogicheskogo obshchestva (for Dubinina).

(Transbaikalia--Jarosite)

#### CIA-RDP86-00513R000824720014-3 "APPROVED FOR RELEASE: 06/14/2000

SOV/20-128-1-42/58

3(8) AUTHORS:

Dubinina, V. N., Kernilov.ch, I. A.

TITLE :

On Mutual Substitutions Between Mimetesite and Bindheimite

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1.

pp 156 = 159 (USSR)

ABSTRACT:

Bindheimite which is formed in consequence of the exidation of boulangerite was found in the oxidation zone of quite a series of polymetallic deposits of the eastern Baykal region. Furthermore a considerable distribution of mimetesite was observed which substitutes metasomatically cerussite in the presence of scorodite. In the present paper on the one hand the gradual transitions from ocruasite over mimetesize to bindheimite ocher were observed which were confirmed by radiometric investigations and a spectrum analysis. On the other hand the change of pseudomorphoses of the bindheimite substituted by a mixture of cerusaite and beudantite towards boulangerite or the development of mimetesite along the flaws in and on the "crystals" composed of bindheimite (Fig 1). The radiogram recorded by the honey-colored mimetesite shows a distinctly, marked diffraction picture and the line pattern

Card 1/3

On Mutual Substitutions Between Mimetesite and Bindhe unite

SOV/20-128-1-40/3P

corresponds to the standard (Table 1). The radiograms cal culated for other are given in table 2. It was found that the penetration of antimony into the crystal lattice of mime. tesite proceeds by a gradual displacement of arsenic and by the disturbance of the mimetesite structure. An almost perfect removal of arsenic causes a rearrangement of the structure into a bindheimite structure. The transition from minutesite to bindheimite was in numerous cases observed in the Yekater. ininakaye deposit. The transformation of bindheimite into perussite-beudantite mixture or into mimetesite was observed in parallelly carried out microchemical, chemical, and immersion determinations of minerals of sections from the deposit in the middle section of the Spasskaya mountair. Binds heimite forms most frequently pseudomorphoses on boulangerite The chemical analysis of bindheimite is given in table 3. It often occurs that the bindheimite pseudomorphyses are arossed by mimeteaise small veins towards boulangerite, at some places entire surfaces are filled by granular mimesesies (Fig 2). These facts speak in favor of the fact that the affinity of lead to arsenic and antimony in the oxidation

Card 2/3

#### "APPROVED FOR RELEASE: 06/14/2000

#### CIA-RDP86-00513R000824720014-3

On Mutual Substitutions Between Mimetesite and Bindheimite

SOY/20-128-1-42/58

zone is approximately equal. The development of lead-containing arsenic- or antimony minerals depends obviously on the higher concentration of the one or other anions. The radiograms were taken in the X-ray Laboratory VSEGET and calculated by Ye. P. Sokolova. The spectrum analyses were carried out in 1954-55 by Ye. Ya. Smirnova in the Spectral Laboratory VSEGET. There are 2 figures, 3 tables and 1 reference.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (All- Union Scientific Research Institute of Geology)

PRESENTED: April 8, 1959, by A. G. Betekhtin, Academician

SUBMITTED: March 19, 1959

Card 3/3

#### KORNILOVICH, I.A.

Find of valentinite in Spasskaya Mountain (eastern Transbaikalia).

Zap. Vses. min. ob-va 89 no.3:343-346 460. (MIRA 13:8)

l. Vsesoyusnyy nauchno-issledovatel'skiy geologicheskiy institut (VSECEI), Leningrad.

(Transbaikalia--Valentinite)

DUBININA, V.N.; KORNILOVICH, I.A.

Mineralogy of oxidised sinc ores in complex metal deposits of eastern Transbaikalia. Trudy Min.mus. no.13:43-61 '62.

(MIRA 16:2)

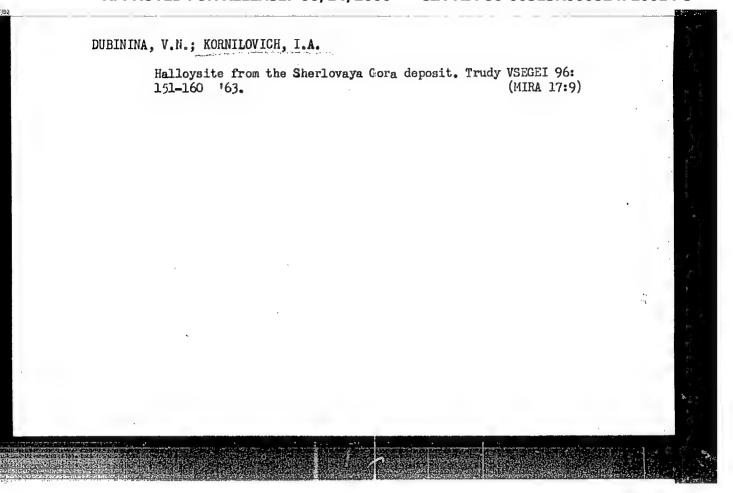
(Transbaikalia--Time ores)

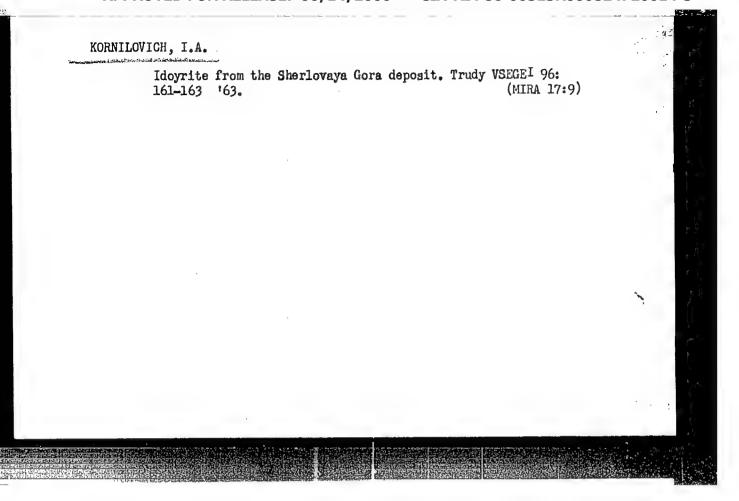
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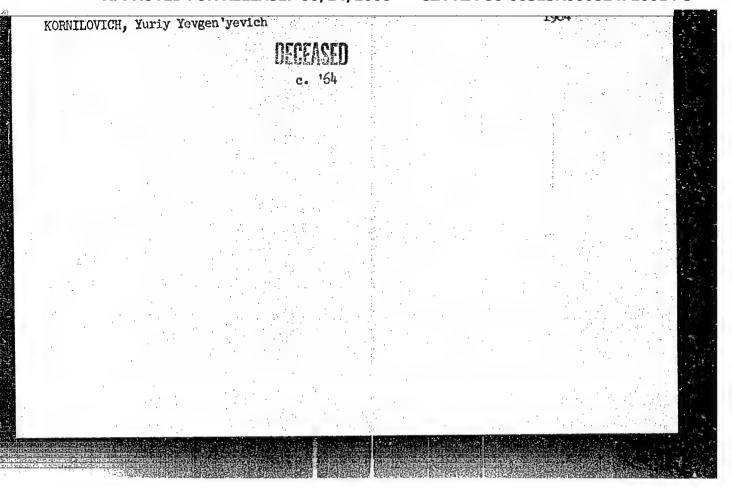
DUBININA, V.N.; KORNILOVICH, I.A.; SOKOLOVA, Ye.P.

Pyromorphite and other exogenetic minerals of the apatite group in the complex metal deposits of eastern Transbalkalia.

Trudy VSECEI 96:137-149 '63. (MIRA 17:9)







KUTSYNA, L.M.; VOYEVODA, L.V.; KORNILOVSKAYA, L.D.

Dipole moment of 1,3,5-triphenylpyra coline-Δ² in the first electronic excited state. Opt. i spektr. 18 no.3:520-522

Mr '65.

(MIRA 18:5)

WEGRZ YHOWSKI, L: KORNILOW-PIOTROWSKI, E.

KOKNILOW-ITETROPSET,

Problem of group therapy of tuberculosis in health resorts.
Polski tygod. lek 5 no.15:582-583 11 Apr 1950 (CLML 20:1)

1. Of the Infirmary of the National Social Insurance in Oborniki Slaskie, near Trzebnica (Director-Leslaw Wegrsynowski, M. D.)

NIECIUNSKI, Witold, mgr; KORNILOWICZ, Jan, mgr; DOMINIAK, Wladyslaw, mgr
Homsing problems in new centers of developing industry.
Inst bud miesz prace 15 no.47:1-122 '64.

137-58-4-6540

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 31 (USSR)

Lerner, V.S., Kornil'tsev, Yu.A. AUTHORS:

Automatic Measurement of the Level of the Fused Mass in TITLE:

Electrical Lead-smelting Furnaces (Avtomaticheskoye izmereniye urovnya rasplavlennoy massy v elektricheskikh pechakh

svintsovoy plavki)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 14, pp 24-25

ABSTRACT: A description is offered of a periodically-functioning in-

strument consisting of a bar and a cable let down by a driving mechanism (DM) every 20 or 30 min, or at some other time interval actuated by a time relay (TR) and an electronicallyrecording automatic balanced bridge (BB) with a disk record and an electric circuit. When the bar touches the melt as it is lowered, a voltage relay is turned on, the DM stops, the BB is switched on, and this measures the resistance of the feedback resistor of the DM and records the distance the bar has been lowered, or in other words the level of the heat. Then the TR switches off the BB circuit, raises the bar, and actuates a

disconnect switch when the bar is in its raised position. The

Card 1/2

137-58-4-6540

Automatic Measurement of the Level (cont.)

interval is counted off, the TR operates, and the cycle is repeated. The level can be measured within the range of 500-2000 mm.

M.L.

1. Metallurgy 2. Equipment--Design 3. Equipment--Operation 4. Melts --Level--Measurement

Card 2/2

SOV/137-58-8-16348

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 16 (USSR)

AUTHORS: Lerner, V.S., Kornil'tsev, Yu.A.

TITLE: An Automatic Power-control Circuit

An Automatic Power-control Circuit of an Electric Foundry Furnace for Smelting Lead Sinter (Skhema avtomaticheskogo regulirovaniya elektricheskoy moshchnosti rudnotermicheskoy

pechi dlya plavki svintsovogo aglomerata)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 24, pp 22-26

ABSTRACT: A description is provided of an automatic power-control

system (ACS) in an electric foundry furnace developed and tested by the VNIITs vetmet at the Leninogorsk Lead Plant. The ACS circuit is adduced, its principles of operation are described, as is the equipment used in the ACS. In the conclusions it is noted that 3 variants of the ACS based on measuring and controlling the resistance in the electrode-slag-hearth cir-

cuit have been checked out in operation.

M.L.

1. Furnaces--Control systems 2. Furnaces--Circuits 3. Sintered lead--Processing

Card 1/1

SOV/115-58-1-28/50 Lerner, V.S., and Kornil tsev, Yu.A. AUTHORS: Measuring Alternating Currents and Voltages by the Compensation Method (Izmereniye peremennykh tokov i napryazheniy TITLE: kompensatsionnym metodom) Izmeritel'naya tekhnika, 1958, Nr 1, p 56 (USSR) PERIODICAL: The automatic control and adjustment of many processes ABSTRACT: requires precise measuring, recording and adjusting of alternating currents and voltages. But the control instruments produced by the Soviet instrument industry are not adapted for this purpose. The automation laboratory of VNIITs vetmet has solved the problem by using a revised version of a common automatic potentiometer, EPD-17. Card 1/2